# **VPDES Permit Application Addendum**

1. Entity to whom the permit is to be issued: Coeburn-Norton-Wise Regional Wastewater Treatment Authority Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.							
2. Is this facility located within city or town boundaries? Yes No X							
3. Provide the tax map parcel number for the land where the discharge is located. 035371							
4. For the facility to be covered by this permit, how many acres will be disturbed during the next							
five years due to new construction activities? _~3 acres							
5. What is the design average effluent flow of this facility? 5.0 MGD							
For industrial facilities, provide the max. 30-day average production level, include units:							
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes X No   If "Yes", please identify the other flow tiers (in MGD) or production levels:							
6.0 MGD, 6.5 MGD, and 7.0 MGD							
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?							
6. Nature of operations generating wastewater:							
Treatment of Domestic Wastewater							
100% of flow from domestic connections/sources							
Number of private residences to be served by the treatment works:							
% of flow from non-domestic connections/sources							
7. <b>Mode of discharge</b> : X Continuous							
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:							
X Permanent stream, never dry							
Intermittent stream, usually flowing, sometimes dry							
Ephemeral stream, wet-weather flow, often dry							
Effluent-dependent stream, usually or always dry without effluent flow							
Lake or pond at or below the discharge point							
Other:							
9. Approval Date(s): O & M Manual 9/28/1992 Sludge/Solids Management Plan 1/27/2005							
Have there been any changes in your operations or procedures since the above approval dates? Yes \(\sigma\) No \(\sigma\)							

# VIRGINIA DEQ NO EXPOSURE CERTIFICATION FOR EXCLUSION FROM VPDES STORM WATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its storm water discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at 9 VAC 25-31-120 E (the VPDES Permit Regulation).

Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED.

		1.10	ase type of Fillic All	miormacion. ALL	ati Ortini				
١.	Facility	Operator	Information						
	Name:	Coebur	n-Norton-Wise Ro	egional Wastew	ater Tre	eatment A	Authority -		
	Mailing /	Address:	P.O. Box 1296						
	City:	Norton		State:	VA	Zip:	24273	Phone:	(276) 679-7236
2.	Facility/	Site Loca	tion Information						
	Facility Name: Coeburn-Norton-Wise Regional Wastewater Treatment Plant								
	Address	: 1155	50 Pine Camp Ro	ad					
	City:	Coel	ourn	State:	VA	_ Zip:	24230		
	County I	Name:	Wise			_			
	Latitude	: 36	° 55' 37"		<del></del>	Longitud	e: 82°	28' 16"	
3.	Was the	facility o	r site previously	covered under	a VPDI	ES storm	water perr	nit? Yes	] No X
	If "Yes",	enter the	VPDES permit nu	mber:					
4.	SIC/Acti	ivity Code	es: Primary:	4952	Secor	ndary (if a	ipplicable):		
5.	Total siz	ze of facil	ity/site associate	d with industri	al activ	ity:		~1 ac	res
3.	Have you paved or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion? Yes No X								
	If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether storm water discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.								
	Less	s than one	acre	One to five ac	res 🗌		More than fi	ve acres	

### Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (11), you are not eligible for the No Exposure exclusion. No Χ (1) Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water Х (2) Materials or residuals on the ground or in storm water inlets from spill/leaks Χ (3) Materials or products from past industrial activity Χ (4) Material handling equipment (except adequately maintained vehicles) Χ (5) Materials or products during loading/unloading or transporting activities Х (6) Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants) Χ (7) Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers Χ (8) Materials or products handled/stored on roads or railways owned or maintained by the discharger Х (9) Waste material (except waste in covered, non-leaking containers [e.g., dumpsters]) Х (10) Application or disposal of process wastewater (unless otherwise permitted) Х (11) Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow 8. Certification Statement I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of no exposure and obtaining an exclusion from VPDES storm water permitting; and that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility identified in this document (except as allowed under 9 VAC 25-31-120 E 2). I understand that I am obligated to submit a No Exposure Certification form once every five years to the Department of Environmental Quality and, if requested, to the operator of the local MS4 into which this facility discharges (where applicable). I understand that I must allow the Department, or MS4 operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain coverage under a VPDES permit prior to any point source discharge of storm water associated with industrial activity from the facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Mark S. Hollyfield Print Name: Executive Director Print Title: Signature: Date: For Department of Environmental Quality Use Only

7. Exposure Checklist

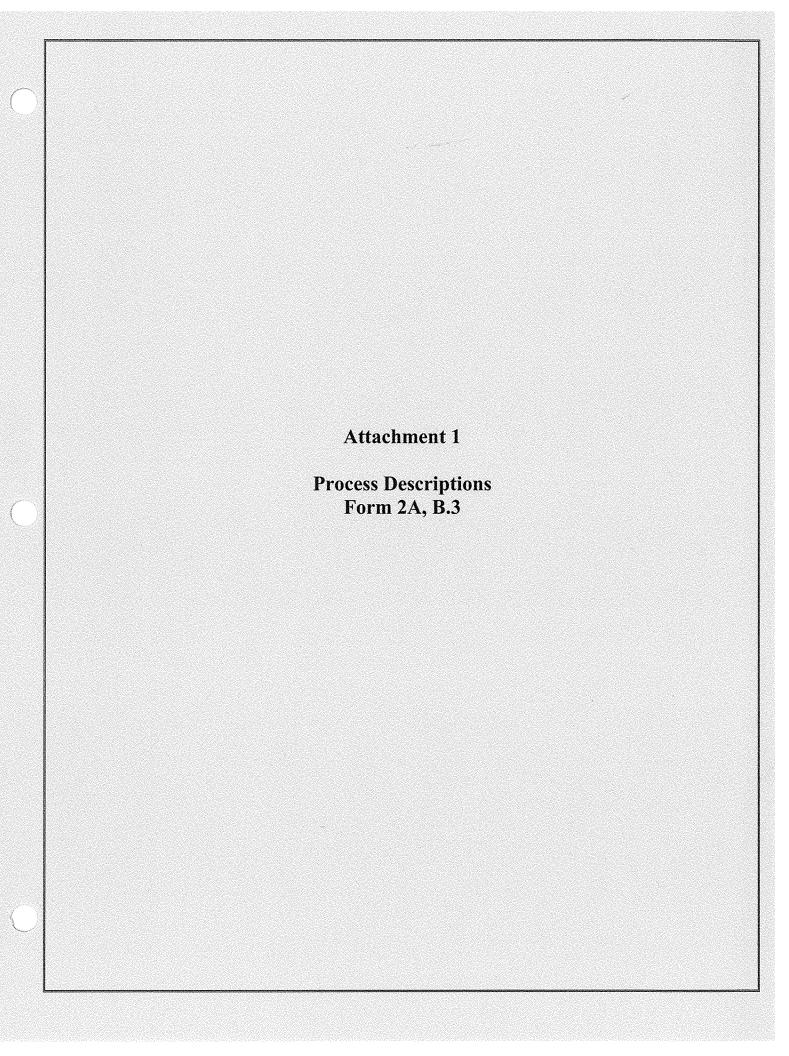
Accepted/Not Accepted by:

Date:

### PUBLIC NOTICE BILLING INFORMATION FORM

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2:

Agent/Department to be	billed:	Coeburn-Norton-Wise Regional Wastewater Treatment Authority					
Owner:		Coeburn-Norton-Wise Regional Wastewater Treatment Authority					
Applicant's Address:		P.O. Box 1296					
		Norton, VA 24273					
Agent's Telephone No:		(276) 679-7236					
Authorizing Agent:	Signati	lak Hollfull ure					
		S. Hollyfield I Name					
	Execut Title	ive Director					
Facility Name:	Coebu	rn-Norton-Wise Regional Wastewater Treatment Plant_					
Permit No.	<u>VA007</u>	77828					
Please return to:	Depart Southw 355 De	e R. Shaheen Ement of Environmental Quality Evest Regional Office Eventual Environmental Quality Eventual Environmental Eventual Eventual Environmental Eventual Ev					



### Coeburn-Norton-Wise Wastewater Treatment Plant VPDES Permit VA0077828 Process Description

### **Current Process (Pre-Expansion):**

The treatment capacity of the Coeburn-Norton-Wise (CNW) Wastewater Treatment Plant (WWTP) is currently 5.0 MGD. The influent has an average CBOD<sub>5</sub> concentration of 220 mg/L, a TSS concentration of 275 mg/L, and an ammonia concentration of 6.0 mg/L. Upon entering the WWTP, influent meets a mechanical bar screen which removes large solids before passing into an aerated grit removal channel to remove finer solids. Following grit removal, grease is skimmed off and the sewage flows into the influent pumping station.

The influent is then pumped to the outer channel of a three-channel oxidation ditch. Return activated sludge (RAS) is also added to the oxidation ditch at the same location to maintain a biomass concentration in the oxidation ditch of approximately 2,000 mg/L. The activated sludge biomass in the oxidation ditch provides the necessary treatment, by aerobic processes, to meet effluent water quality limits. Each channel of the oxidation ditch utilizes 6 aerators to provide both oxygen, for biological processes, and kinetic energy, to maintain suspension of solids. Flow passes through from the outer channel to the middle channel, and then from the middle channel to the inner channel via crossover ports in the channel walls. Activated sludge exits the oxidation ditch by means of an effluent weir in the inner channel and flows to a splitter box that evenly distributes the activated sludge to two secondary clarifiers.

The activated sludge flows around a channel on the outside edge of the clarifier and gravity feeds down into the clarifier via ports evenly distributed around the channel. The flow through these ports is forced downward by a baffle plate to facilitate the settling of the biomass in suspension and to limit the flow from short-circuiting. The biomass solids are settled to the bottom of the clarifier in a sludge blanket where they collected and pumped back to the oxidation ditch as RAS, or wasted to the solids digesters. Clarified water exits the secondary clarifiers by flowing over a weir into the effluent channel along the outer edge of the clarifier (parallel to the influent channel). Scum is also removed from the top of the clarified water, before it leaves the clarifier, and piped to a pit to be pumped to the solids digesters. The clarified water from both of the secondary clarifiers is then piped to a single point and chlorinated.

The clarifier effluent is then split between two chlorine contact tanks for disinfection. The non-potable water demand for the plant is fulfilled by three vertical turbine pumps pulling disinfected water from the chlorine contact tanks. Disinfected water from the two contact tanks is combined and excess chlorine is removed by the addition of sulfur dioxide. Treated effluent water is piped to the post aeration flumes to increase the dissolved oxygen content. The plant flow is then measured by a Parshall flume before being discharged into the Guest River.

Solids that have settled in the secondary clarifiers are used as RAS, but can also be wasted to the solids digesters, along with scum from other stages in the treatment process. The solids digesters use aerobic processes to further degrade the solids as a means of reducing the volume of waste solids produced by the plant. Waste leaving the digesters is separated into liquids, which are sent back to the plant influent, and solids, which are dried further for land application, disposal at a landfill, or composting.

### Planned Process (Post Expansion):

The treatment capacity of the Coeburn-Norton-Wise (CNW) Wastewater Treatment Plant (WWTP) is to be upgraded to a design flow of 6.5 MGD. This upgrade is also to take into account a peak flow of 16.25 MGD that could potentially be seen during wet weather. The influent has an annual average CBOD<sub>5</sub> concentration of 220 mg/L, a TSS concentration of 275 mg/L, and an ammonia concentration of 6.0 mg/L. Sewage entering CNW first meets mechanical bar screens to remove large solids before passing into aerated grit removal channels to remove finer solids. As part of the plant upgrade, an additional bar screen and aerated grit removal unit are to be added for a total of two bar screens and two grit removal units. Following grit removal, grease is skimmed off and the sewage flows into the influent pumping station.

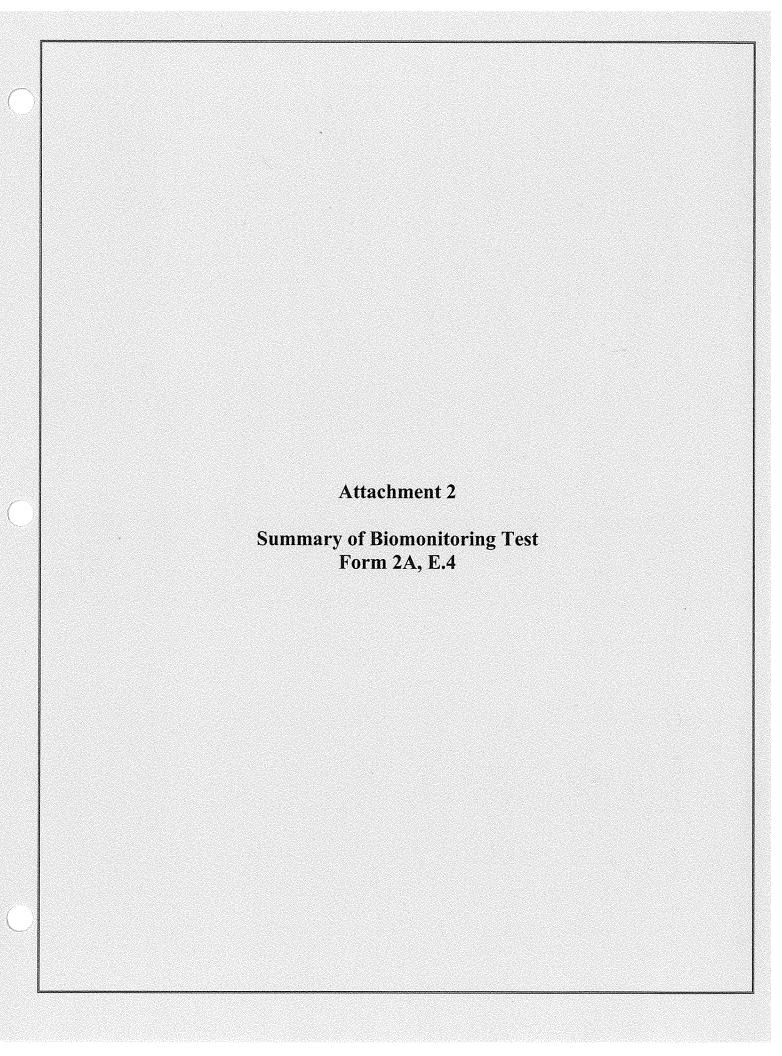
The influent is then pumped to the outer channel of a three channel oxidation ditch. Return activated sludge (RAS) is also added to the oxidation ditch at the same location to maintain a biomass concentration in the oxidation ditch of approximately 2,000 mg/L. The activated sludge biomass in the oxidation ditch provides the necessary treatment, by aerobic processes, to meet effluent water quality limits. In addition to the suspended biomass, IFAS fixed media units are to be placed in the middle channel of the oxidation ditch to provide additional biomass to the system as part of the expansion. Each channel of the oxidation ditch utilizes 6 aerators to provide both oxygen, for biological processes, and kinetic energy, to maintain suspension of solids. Flow passes through from the outer channel to the middle channel, and then from the middle channel to the inner channel via crossover ports in the channel walls. The existing secondary clarifiers are not capable of handling the peak flows that could potentially occur during wet weather. To accommodate the additional flow, the inner channel will be operated as a third secondary clarifier to prevent overloading the existing clarifiers after the expansion. The aeration units in the inner channel will be turned off, allowing the solids to settle in the inner channel. Up to 4.25 MGD will flow out of the inner channel via the wet weather effluent weir.

This clarified water will then flow to a new tertiary filter building. Biomass that has settled in the inner channel will be pumped back to the outer channel as RAS. This pumping system will also act as a recycle loop for future denitrification capabilities. Up to 12 MGD of activated sludge exits the oxidation ditch by means of an effluent weir in the middle channel and flows to a splitter box that evenly distributes the activated sludge to two secondary clarifiers. The activated sludge flows around a channel on the outside edge of the clarifier and gravity feeds down into the clarifier via ports evenly distributed around the channel. The flow through these ports is forced downward by an extended baffle plate to facilitate the settling of the biomass in suspension and to prevent the flow from short-circuiting. The biomass solids are settled to the bottom of the clarifier in a sludge blanket where they collected and pumped back to the oxidation ditch as RAS, or wasted to the solids digesters. Clarified water exits the secondary clarifiers by flowing over a weir into the effluent channel along the outer edge of the clarifier (parallel to the influent channel). Scum is also removed from the top of the clarified water, before it leaves the clarifier, and piped to a pit to be pumped to the solids digesters.

The clarified water from both of the secondary clarifiers is then piped to the tertiary filter building. Clarified water is pumped from a wet well into two Aqua Aerobic disk filter units for tertiary treatment. Backwash sludge from these filters is sent to the oxidation ditch as RAS. Filtered water flows to a new mixing vault where chlorine is added. The flow is then split between two chlorine contact tanks for

disinfection. The non-potable water demand for the plant is fulfilled by three vertical turbine pumps pulling disinfected water from the chlorine contact tanks. Disinfected water from the two contact tanks is combined and excess chlorine is removed by the addition of sulfur dioxide. Treated effluent water is piped to the post aeration flumes to increase the dissolved oxygen content. The plant flow is then measured by a Parshall flume before being discharged into the Guest River.

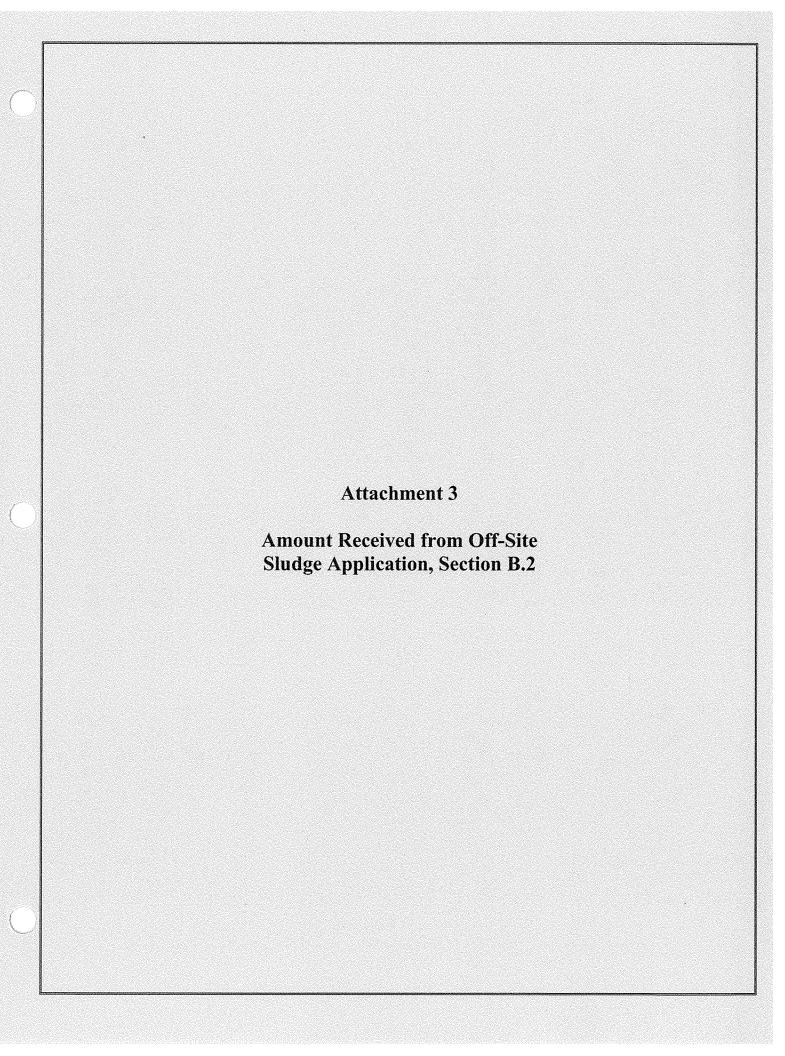
Solids that have settled in the secondary clarifiers are used as RAS, but can also be wasted to the solids digesters, along with scum from other stages in the treatment process. The solids digesters use aerobic processes to further degrade the solids as a means of reducing the volume of waste solids produced by the plant. Waste leaving the digesters is separated into liquids, which are sent back to the plant influent, and solids, which are dried further for land application, disposal at a landfill or composting.



# Coeburn-Norton-Wise Wastewater Treatment Plant VPDES Permit VA0077828 E.4 Summary of Submitted Biomonitoring Test Information Outfall 001

Event	Dates	Vertebrate (P. promelas)	NOEC	TU <sub>c</sub> (100/NOEC)	NOAEC <sup>(1)</sup>	NOAEC(1) TUa (100/NOAEC)
1st Annual	8/2008	X	100%	1.00	100%	1.00
2nd Annual	8/2009	X	%001	1.00	%001	1.00
3rd Annual	8/2010	X	100%	1.00	100% o	1.00
4th Annual	8/2011	X	100%	1.00	100%	1.00

Note: (1) NOAEC results from chronic test 48-hour survival data



### Facilities Hauling Digester Contents to Coeburn-Norton-Wise Regional WWTP

Facility Name: VA Department of Corrections Unit #18 STP

Contact Person: J.J. Burnett Title: Superintendent Phone: (276) 395-2384

Mailing Address (street or P.O. Box): P.O. Box 1198 City or Town: Coeburn State: VA Zip: 24230

Total dry metric tons per 365-day period received from this facility: varies

Facility Address: Route 72, Coeburn, VA 24230

Facility has aerobic digestion

Facility Name: USFS Flatwoods Job Corp STP

Contact Person: Jerome Kern

Title: Operator

Phone: (276) 395-3384

Mailing Address (street or P.O. Box): 2803 Dungannon Road City or Town: Coeburn State: VA Zip: 24230

Total dry metric tons per 365-day period received from this facility: varies

Facility Address: Route 72, Coeburn, VA 24230

Facility has aerobic digestion

Facility Name: Appalachia Elementary School STP

Contact Person: Robert Summers

Title: Principal

Phone: (276) 565-1115

Mailing Address (street or P.O. Box): P.O. Box 430 City or Town: Appalachia State: VA Zip: 24216

Total dry metric tons per 365-day period received from this facility: varies

Facility Address: 3965 Kent Junction Road, Appalachia, VA 24216

Facility has aerobic digestion

Facility Name: Town of Coeburn Sheffield Acres STP

Contact Person: Loretta Mays

Title: Manager

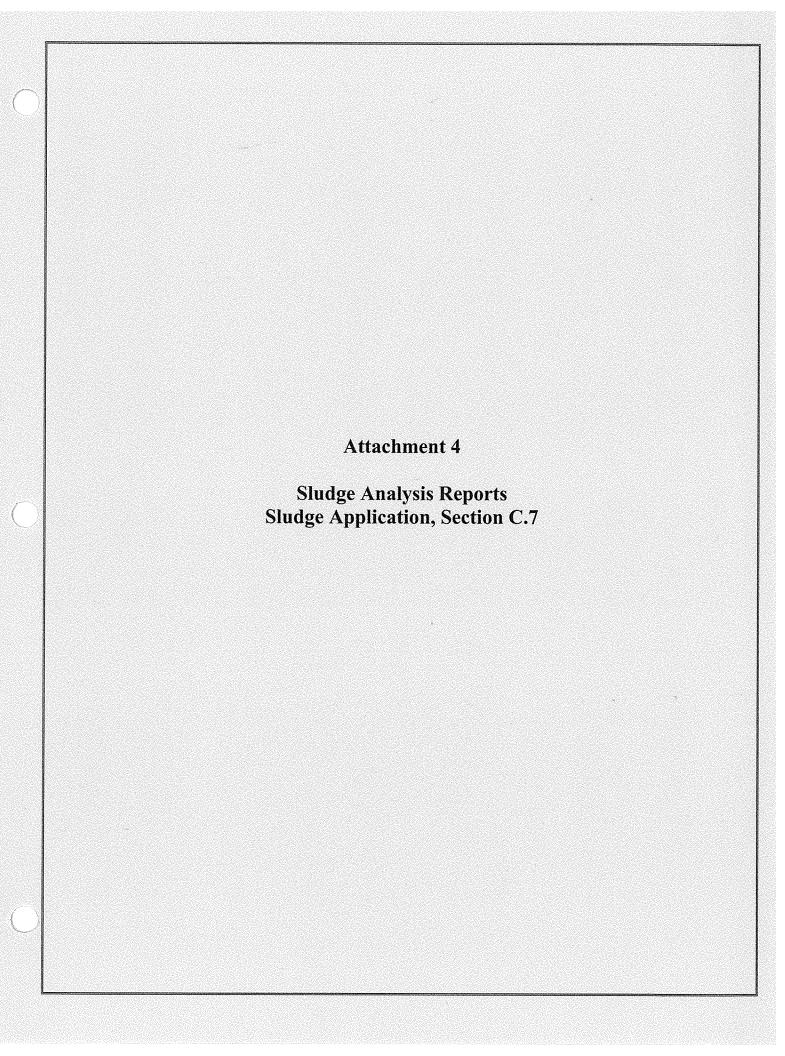
Phone: (276) 395-3323

Mailing Address (street or P.O. Box): P.O. Box 370 City or Town: Coeburn State: VA Zip: 24230

Total dry metric tons per 365-day period received from this facility: varies

Facility Address: Route 72, Coeburn, VA 24230

Facility has aerobic digestion





# Environmental Monitoring, Incorporated

P.O. Box 1190 \* Norton, VA 24273 **Environmental Consultants and Analytical Laboratories** 

## **Certificate of Analysis**

Client Name: C.N.W. Authority

Address: PO Box 1296

Address: Norton, VA 24273

Report Date: 04/18/11

Lab Sample No.: 1092058

Client No: 662

EMI Project No.: 2

Sample Identification: Composite of 7 Samples Site Description: NO. 1 DIGESTER 12.8

Date Collected: 02/07/11

Time Collected: 0

\*\*\*Results Reported on a Dry Weight Basis\*\*\*

Collected By: M SMITH Sample Matrix: Non-Aqueous

							von-Aqueous
	Sample				Date	Time	
Parameter	Result	Units	MDL	Method	Analyzed	Analyzed	Analyst
Alkalinity	224.7	mg/kg	56.2	310.1	2/18/2011	2045	MCF
Ammonia, Nitrogen	2610.0	mg/kg-N	10.0	4500-NH3 C	2/21/2011	844	JM
Nitrate	758.0	mg/kg-N	4.72	300.0	2/15/2011	1348	TAY
Phosphorus, Total	132646	mg/kg	94	SM 4500 PBE	2/21/2011	1030	NCC
Solids, Percent	17.8	%		160.3	2/21/2011	1415	TCT
Total Kjeldahl Nitrogen	44200	mg/kg-N	10.00	4500N	2/21/2011	844	JM
Total Moisture	82.2	%	1.0	ASTM D2974-87	2/11/2011	1545	TCT
Coliform, Fecal	2783	MPN/g	2.0	9221E	2/7/2011	1630	RSV
Arsenic, Total	BDL	mg/kg	1.180	6010B	2/22/2011	1427	NCC
Cadmium, Total	1.573	mg/kg	0.281	6010B	2/22/2011	1427	NCC
Copper, Total	229.2	mg/kg	0.039	6010B	2/22/2011	1427	NCC
Lead, Total	39,44	mg/kg	1.573	6010B	2/22/2011	1427	NCC
Mercury, Total	1.05	mg/kg	0.0084	245.1 REV.3	2/14/2011	1649	TCT
Molybdenum, Total	7.58	mg/kg	0.449	6010B	2/22/2011	1427	NCC
Nickel, Total	19.83	mg/kg	0.618	6010B	2/22/2011	1427	NCC
Potassium, Total	3590	mg/kg	12.53	6010B	2/25/2011	1418	NCC
Selenium, Total	3.66	mg/kg	0.337	6010B	2/24/2011	1349	NCC
Zinc, Total	725	mg/kg	0.225	6010B	2/22/2011	1427	NCC
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### CERTIFICATE REISSUE

This Certificate is intended to replace a previous issue for the same sample number dated: 3 10 11

Releaue Authorized by:

MDL - Method Detection Limit **BDL** - Below Detection Limit

Voice (276) 679-6544 Fax (276) 679-6549 www.emilab.com



# ENVIRONMENTAL MONITORING, INCORPORATED ENVIRONMENTAL CONSULTANTS & ANALYTICAL LABORATORIES

P.O. BOX 1190 A NORTON, VIRGINIA 24273 A 276/679-6544

# **Certificate of Analysis**

Page: 1 of 1

Client Name: C.N.W. AUTHORITY

Address: P.O. BOX 1296

Sample Identification: SLUDGE COMPOSITE

NORTON, VA

Site Description: NO.1 DIGESTER SLUDGE CAKE

24273

Report Date: 03/10/11

Lab Sample No.: 1092058

Client No.: 662

BMI Project No.:

Date Collected:

02/07/11 0

Time Collected:

Sample Matrix: NAQ Collected By: M SMITH

	Sample	***Results Report	ed as Received	d Unices C	liherwise Stated***	Date	Time	
Parameter	Result	Unlis	MDL	RL	Method	Analyzed	Analyzed	Analyst
Alkalinity	40.0	mg/kg	10.0	10.0	EPA 310.1	2/18/2011	2045	MCF
Nitrate	135	mg/kg - N	0.840	20.0	EPA 300.0	2/15/2011	1348	TAY
рН	6.60	STD			SW846-9045	2/14/2011	2035	MCF
Phosphorus, Total	23611	mg/kg	16.8	62.5	SM 4500 PBE	2/21/2011	1030	NCC
Solids, Percent	17.8	%			BPA 160.3	2/21/2011	1415	TCT
Total Moisture	82.2	%	1.00		ASTM D2974-8	72/11/2011	1545	TCT
Coliform, Pecal (Dry Weight Basis)	2783	MPN/g	2,00	2,00	SM, 9221B	2/7/2011	1630	RSV
Arsenic, Total	BDL	mg/kg	0,210	3.00	SW846-6010B	2/22/2011	1427	NCC
Cadmium, Total	0.280 J	mg/kg	0.050	3.00	SW846-6010B	2/22/2011	1427	NCC
Copper, Total	40.8	mg/kg	0.0070	0.100	SW846-6010B	2/22/2011	1427	NCC
Lead, Total	7.02	mg/kg	0.280	3.00	SW846-6010B	2/22/2011	1427	NCC
Mercury, Total	0.186	mg/kg	0.0015	0.025	BPA 245.1-RBV	32/14/2011	1649	TCT
Molybdenum, Total	1.35 J	mg/kg	0,080	3,00	SW846-6010B	2/22/2011	1427	NCC
Nickel, Total	3.53	mg/kg	0.110	3,00	SW846-6010B	2/22/2011	1427	NCC
Potassium, Total	639	mg/kg	2,23	10.0	SW846-6010B	2/25/2011	1418	NCC
Sclenium, Total	0 -652	PA ug/kg	60.0	300	SW846-6010B	2/24/2011	1349	NCC
Zinc, Total	129	mg/kg	0.040	3.00	SW846-6010B	2/22/2011	1427	NCC

How If Available (GPM): Temp, if Available (C): Depth If Available (A): Analysis Package Code: A40 Type of Sample: Grab HDL = Below Detection Limit PLD = Field Technician **SCRLP** 

IV - Flag Indicates Insufficient Sample Volumo

J - Flag Indicates estimated value below Report Limit

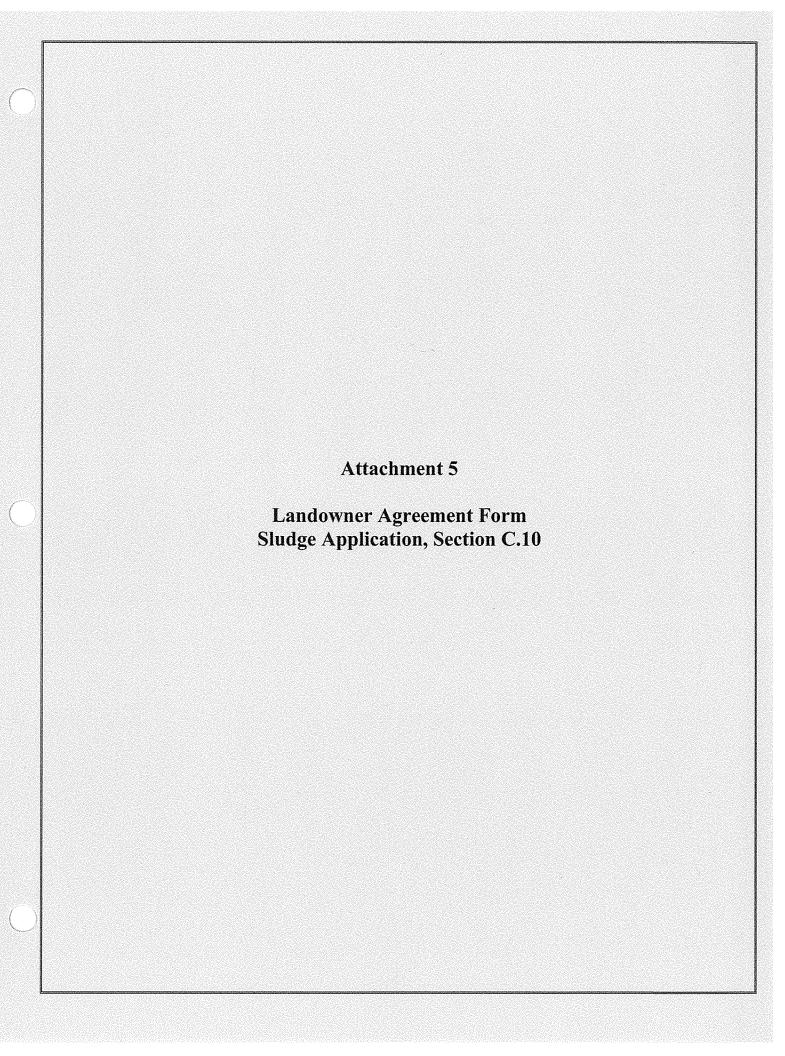
T - Results Indicate possible loxicity which is expected to influence reported value.

NA -A result for this enalyte is not available.

Idi - Matrix Interference - Final result may not be representative.

BO = Batch OC Outside Acceptable Range

HE = Parameter Hold Time Exceeded FC = Fallore to Comply Current SOP R = Sample results rejected because of gross deficiencies in QC or method performance.



# FACILITY NAME: Coeburn-Norton-Wise (C-N-W)Regional WWTP

VPDES PERMIT NUMBER: 1100....

	SEWAGE SLUDGE APP	LICATION AGREEMENT						
his sew	vage sludge application agreement is made on this date to here as "landowner", and C-N-W	Aucust 15, 200 between Simmy VANOJER., referred to here as the "Permittee".						
Landow	ner is the owner of agricultural land shown on the map	attached as Exhibit A and designated there as Permittee agrees to apply and landow ner agrees to comply with adge on landowner's land in amounts and in a manner authorized						
Landow	mer acknowledges that the appropriate application of so ming to the property. Moreover, landowner acknowle health, the following site restrictions must be adhered to on:	wage sludge will be beneficial in providing fertilizer and soil dges having been expressly advised that, in order to protect when sewage sludge receives Class B treatment for pathogen						
1.	not be harvested for 14 months after application of se	sludge soil nuxture and are totally above the land surface shall wage sludge;						
2.	Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil;							
<b>3.</b>	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;							
4.	Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge;							
<b>5.</b>	Animals shall not be grazed on the land for 30 days after application of sewage sludge;							
6.	Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board;							
7.	Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge;							
8.	Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.							
9.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).							
specifi	tree agrees to notify landowner or landowner's designed ically prior to any particular application to landowner's n notice to the address specified below.	of the proposed schedule for sewage sludge application and land. This agreement may be terminated by either party upon						
	Landowner:  Jinny R. Jankler  Signature  Sibi Bry 55 kill P. D. W. 15 L. W.A.  Mailing Address 74273	Pennittee: WASTE WATER TERAMENT AUTINETY BJ:  Signature  Signature						
	organism of the second	P.O. Box 1296, Norton, Virginia 24273						
	Mailing Address 74293	Mailing Address						